

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/000630

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ A61K35/12, A61K38/39, C12N5/10, A61P35/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ A61K35/12, A61K38/39, C12N5/10, A61P35/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPIDS/BIOSIS/BIOTECHABS/MEDLINE/CA (STN)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Keiji KUBA "HGF ni yoru Kikan Saisei to NK4 ni yoru Seigan", Analytikem International, Inc., 2002, Vol.20, pages 2143 to 2450	1-13, 15-17
Y	Tadanori MAYUMI "Saisei Eryo to DDS Overview - Yakugakuteki Shiten Kara-", Drug Delivery System, 2001, Vol.16, pages 10 to 15	1-13, 15-17
Y	Tadanori MAYUMI "Yakubutsu Gainen no Paradigm Shift -Ko Bunshi Eyakuhin ni yoru Sippei Chiryo ni Mukete-", Journal of Japanese Cosmetic Science Society Gakkai Shi, 2002, Vol.26, pages 234 to 238	1-13, 15-17
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 05 April, 2004 (05.04.04)		Date of mailing of the international search report 20 April, 2004 (20.04.04)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 92/09702 A (New York University), 30 April, 1992 (30.04.92), & EP 554352 A1 & JP 6-502406 A & US 20020009431 A1	1-13,15-17
Y	WO 00/61156 A2 (Titan Pharmaceuticals, INC.), 19 October, 2000 (19.10.00), & EP 1165100 A2 & JP 2003-532621 A	1-13,15-17
Y	Yoshito IKADA, Gairon Protein, Nucleic acid and Enzyme, 2000, Vol.45, pages 2139 to 2141	1-13,15-17
Y	Tetsuji YAMAOKA et al., "Seitainai Kyushusei Zairyo no Bunshi Sekkei", Protein, Nucleic acid and Enzyme, 2000, Vol.45, pages 2142 to 2149	1-13,15-17
P,X	MANABE T. et al., Cell-based protein delivery system for the growth of pancreatic cancer: NK4 gene-transduced oral mucosal epithelial cell sheet, Clinicaal Cancer Research, August, 2003, Vol.9, pages 3158 to 3166	1-13,15-17

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☐ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☐ contained in the international application as filed
 - ☒ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purposes of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 14
because they relate to subject matter not required to be searched by this Authority, namely:
It pertains to methods for treatment of the mammal body including human body by surgery or therapy and diagnostic methods.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.